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S O C I E T Y

FOR THE

ENCOURAGEMENT

OF

Arts, Manufactures, and Commerce.

PREMIUMS

FOR THE SESSIONS

1832 — 1833,

1833 — 1834.

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1832.

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ADVERTISEMENT TO THE PUBLIC.

THE chief object of the Society is to promote the Arts, Manufactures, and Commerce of this Kingdom, by giving honorary or pecuniary Rewards, as may be best adapted to the case, for the communication to the Society, and through the Society to the Public, of all such useful Inventions, Discoveries, and Improvements, (whether specified in these Premiums or not,) as tend to that purpose: in pursuance of this plan, the Society have already expended upwards of a *Hundred Thousand Pounds*, derived from voluntary Subscriptions and Legacies.

The Meetings of the Society are held every Wednesday, at seven o'clock in the evening, from the first Wednesday in November to the second Wednesday in June. The Committees meet on other evenings in the week during the session, for the purpose of taking into consideration the subjects referred to them by the Society. A person desirous of becoming a Member of the Society may be proposed according to the following form, which must be signed by three Members of the Society, and delivered in to the Secretary:

A. B. [*Trade, profession, or designation of the Candidate,*] proposed as a Member of the Society for the Encouragement of Arts, Manufactures, and Commerce, by

C. D.
E. F.
G. H.

[*Date.*]

Peers of the realm, or lords of parliament, are, on their being proposed, immediately balloted for; the names of other persons proposed to become members are read by the Secretary to the Society, and are then inserted in lists which are hung up in the Society's room; they are balloted for at the second following ordinary meeting. In both cases, if two-thirds of the members then voting ballot in their favour, they are deemed perpetual members upon payment of not less than twenty guineas in one sum, or subscribing members upon payment of any sum not less than two guineas annually.

Ladies are eligible as members of the Society, and alone are entitled to vote by proxy at elections, through the medium of any gentleman who is a member, on his producing a written authority for the same.

Members are entitled to vote and assist in all the business of the Society and of the several committees. They have also the privilege of recommending two persons as visitors at the meetings of the Society; and, by addressing a note to the housekeeper, of introducing their friends on any week-day, except Wednesday, between the hours of ten and two, to examine the various models, machines, and productions, in different branches of arts, manufactures, and commerce, for which rewards have been bestowed; also to inspect the magnificent series of moral and historical paintings, executed by the late J. Barry, Esq., which, with some valuable busts, statues, portraits, &c. decorate the public rooms of the Society.

GENERAL NOTICE TO CANDIDATES.

THE great object of the Society, in rewarding individuals, is to draw forth and give currency to those inventions and improvements which are likely to benefit the public at large. Candidates are therefore requested to observe, that if the means by which the respective objects are effected require an expense or trouble too great for general purposes, the Society will not consider themselves bound to give the offered reward; but though they expressly reserve the power, in all cases, of giving such part only of any premium as the performance shall be adjudged to deserve, or of withholding the whole if there be no merit, yet the candidates may be assured the Society will always judge liberally of their several claims.

The Society by no means restrict their liberality to the subjects for which premiums are specially offered; but will take into consideration, and will reward by a bounty proportioned to its merit, any communication, the subject of which is of a practical nature, and calculated to promote the public good, provided a description of the same has not hitherto been made public.

All communications are to be made by letter (post-paid), addressed to the Secretary; and are to contain full and particular details, according to the nature of the subject, as well as accurate descriptions of such drawings and models as form part of the communication: the models to be sent *carriage paid*.

The premiums are designed for the United Kingdom, unless expressly mentioned to the contrary: but no claim will be attended to unless the previous conditions have been fully complied with.

No person shall receive any premium, bounty, or encouragement, from the Society, for any matter for which he has obtained any premium or reward from any other Society, or for which he has obtained, or purposes to obtain, a patent: it being a condition stipulated with every candidate, that all articles rewarded by the Society shall be freely given up to the public, to be made or manufactured by any person whomsoever.

All models, the production of which is attached as a condition to any premium, shall upon delivery of such premium, remain the property of the Society.

Where premiums or bounties are obtained in consequence of specimens produced, the Society will retain such part of those specimens as they may judge necessary, making a reasonable allowance for the same.

No member of this Society shall be a candidate for, or entitled to receive, any premium, bounty, or reward whatsoever, except the honorary medals of the Society.

No candidate, not a member, shall be present at any meeting of the Society or committees, or be admitted at the Society's rooms, after having delivered in his claims, until such claims are adjudged, unless summoned by the committee.

A candidate for a premium, or a person applying for a bounty, being detected in any attempt to impose upon the Society, shall forfeit such premium or bounty, and be deemed incapable of obtaining any for the future.

The consideration of the claims for the premiums offered in the present list will take place during the two sessions of the Society, 1832-3, and 1833-4. The several candidates and claimants, to whom the Society shall adjudge premiums or bounties, are to attend on the last Wednesday in May, or such other day as the Society shall appoint, to receive the same; and before that time no premium or bounty will be delivered, except to those who are about to leave the kingdom.

In cases where the Society may think fit to admit excuses for not attending in person, deputies may be substituted to receive the rewards, provided such deputies are either members of the Society or superior officers thereof.

CLASS OF AGRICULTURE.

INCLUDING

PLANTING, GARDENING, AND EVERY BRANCH OF RURAL ECONOMY.

For useful communications on any of these subjects, the Society will give Gold or Silver Medals, or Pecuniary Rewards, varying from Five to Fifty Pounds, according to circumstances: and it is particularly requested that such communications may be sent in, if possible, not later than the first Monday in March, in order that they may be taken into consideration during the session in which they are received.

The objects to which the attention of the public is more particularly directed are arranged under the following heads:—

I.—IMPROVEMENT OF LAND.

For the discovery and application of superior or cheaper means of effecting any of the three following objects:

1. Gaining extensive tracts of land from the sea, and bringing the same into cultivation.

2. Bringing into cultivation land previously lying waste.

3. Draining or otherwise improving land already under cultivation.

4. Making experiments for the purpose of ascertaining the best method of applying the substances already used as manure, or the successful introduction of any new substance for that purpose.

II. PLANTING AND MANAGING FOREST AND FRUIT TREES.

5. Making extensive plantations of forest-trees, particularly on land unfit for other purposes.

6. Making experiments, or communicating information concerning the kinds of trees best adapted for cultivation in different soils and situations, or on the best modes of making and managing plantations, or live and dead fences, or of planting, pruning, and managing fruit-trees and orchards, or of securing plantations from injury by hares, rabbits, sheep, or cattle.

7. Communicating information respecting the best methods of preserving the blossoms of fruit-trees from injury by frost, and of ripening tender fruits in the open air.

8. Introducing new and improved species or varieties of forest or fruit-trees, or ornamental shrubs.

The Society will be glad to receive seeds, grafts, or cuttings, for distribution.

III.—CULTIVATION OF CORN AND OTHER PLANTS.

9. Making experiments, or communicating information, on the different methods of growing wheat and other grain, and on the varieties of each, with the modes of culture best adapted to various soils and situations.

10. Communicating similar experiments or information on the various native and foreign grasses, clover, lucern, &c., and on the soils best adapted to them respectively.

The public are referred to a communication on an improved variety of ray-grass, published in the 44th volume of the Society's Transactions.

11. Ascertaining the possibility of successfully cultivating straw for making fine Leghorn plat, or procuring information concerning the modes of its cultivation and treatment in Italy.

12. Communicating information concerning the cause of, or remedy for, the rotting of the roots of clover in the ground.

13. Communicating new or improved methods of harvesting corn, or making hay in wet seasons.

14. Discovering new or improved means of preserving agricultural produce, particularly roots and plants, during the winter, in a fit state for feeding cattle and sheep in the spring.

15. The discovery of new and effectual means of importing from distant countries plants, roots, and seeds, in a living state.

16. Making experiments, or communicating information respecting the possibility of making plants flourish in climates and situations very different from those in which they are found native.

17. Introducing new and useful vegetables, or producing new and improved varieties of those already in cultivation; or introducing any improvement in managing fruit or kitchen gardens.

18. For any improvement in the method of building, heating, and managing hot-houses or conservatories.

19. Discovering effectual methods of destroying noxious insects and preventing blights, or in any way improving the health of trees or plants.

IV. CATTLE, SHEEP, PIGS, AND OTHER DOMESTIC ANIMALS.

20. Communicating new and useful information concerning the breeding, rearing, and feeding of cattle, or other domestic animals, with a view to improve their health or vigour, or to increase either the quantity or quality of the meat, milk, wool, or other produce.

21. Importing, breeding, and rearing, in this country, the Cashmere-shawl goat.

22. Ascertaining the value of salt in feeding cattle, or in improving the quality of hay injured by the weather.

V. AGRICULTURAL BUILDINGS AND MACHINES.

23. Inventing or improving machines for performing, in a superior manner, or at a cheaper rate, any agricultural operations.

24. Communicating any improvement in the construction of barns, stables, and other farm-buildings, or in the arrangement of a farm-yard, or in the construction and hanging of gates.

CLASS OF POLITE ARTS.

CONDITIONS.

All performances sent in for reward in this class, except those relating to architectural subjects, are to be produced to the Society on or before the first Tuesday in March, and none can be received after that day.

No candidate, under any pretence whatever, shall be allowed to retouch or varnish a performance after it has been received by the Society.

No candidate, having received a premium or bounty, shall receive an equal reward in the same class, or any reward in an inferior class, of the same department of art. Nor shall any reward be given lower than one degree below the lowest of the premiums offered in each article.

No candidate shall receive more than one premium or bounty in the same year, unless in the separate arts of painting, sculpture, architecture, and engraving.

All performances, to which premiums or bounties are adjudged, shall remain with the Society until after the second Wednesday in June, when they will be re-delivered, unless mentioned in the premiums to the contrary.

No performance shall be admitted that has been offered for reward to any other society or academy, or has been publicly exhibited.

All performances must have been executed within the year previous to their being sent in to the Society, except the finished engravings, which must have been finished within the year previous to their being sent in.

The Society require a specimen of the abilities of each successful candidate to be made under the inspection of the Committee of Polite Arts.

All copies are to be on a different scale from the original; and, if possible, the original is to be sent with the copy.

The Society reserve to themselves the power of giving medals of less value than those proposed; or of withholding them altogether in cases where the performance shall be deemed unworthy of reward.

In consideration of the great number of premiums here offered, embracing so many departments of the fine arts, no bounty can be given, except for such subjects as are not included in any of the classes, when a bounty may be given in cases of extraordinary merit, on the special recommendation of the Committee of Polite Arts; the reason of such recommendation to be stated in the report of the Committee.

The following premiums are offered in five distinct classes: —

Class I. includes Sons and Grandsons of Peers, or of Peeresses in their own right, of the United Kingdom.

Class II. includes Daughters and Grand-daughters of Peers, or of Peeresses in their own right, of the United Kingdom.

Class III. includes Gentlemen who claim as Amateurs.

Class IV. includes Ladies who claim as Amateurs.

Class V. includes Artists, who profess and practise the Arts of Painting, Sculpture, Architecture, or Engraving, or who are pursuing their Studies in contemplation of becoming Artists.

It is required, that the subjects in claim of premiums be delivered in without the names, or any external intimation to whom they belong; that the candidates affix on the front of their performances whatever mark they please, each performance having a different mark, and that the same mark be inscribed on the *outside* of a paper sealed up, containing *within* the name and residence, and on the *outside* the sex and age of the candidate, the number of the class to which such candidate belongs, and the number of the premium in claim of which the performance is offered, and whether the candidate has previously received from the Society any and what reward; the name not to be disclosed unless the candidate be successful, or in consequence of a special vote of the Society or Committee.

If a person be a candidate for more than one premium, a separate letter must be sent in with each performance; but no person is allowed to send in more than one performance in claim of the *same* premium.

No member who is the father, son, or master of a candidate for a premium, bounty, or reward, nor any person anywise lucratively interested, shall be of the Committee to which such matter is referred nor present in the Society when it is under consideration, unless called in; under penalty of excluding such child, father, scholar, apprentice, or servant, from all title to any such premium, bounty or reward, notwithstanding a determination of the Society in their favour.

Human Figure.

1. For the best drawing in chalk, pencil, or Indian ink, copied from any picture, print, or drawing, by persons under the age of sixteen;—*the Silver Isis Medal*. For the next in merit, *the Silver Palette*.
2. For the best outline, drawn from any entire figure of the antique, or cast in plaster, the size of the drawing to be not less than twenty-four inches, to be accompanied with a drawing of a hand and foot the size of life, by persons under the age of eighteen;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.
3. For the best finished drawing from any entire antique figure, or from any cast in plaster, the size of the drawing to be not less than twenty-four inches, to be accompanied with a drawing of a hand and foot the size of life, by persons under the age of nineteen;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.
4. For the best outline drawing of an entire anatomical human figure, from a model or cast, the size of the drawing to be not less than twenty-four inches, to be accompanied with a drawing of a hand and foot the size of life, by persons under the age of nineteen;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.
5. For the best drawing from the living figure, the size of the drawing to be not less than twenty-four inches, by persons under the age of twenty-one;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.
6. For the best copy in water-colours from any picture, being a composition of two or more figures, the size of the principal figure not less than nine inches, by persons under the age of twenty-one;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.
7. For the best original drawing, being a composition of two or more figures, the principal figure not less than nine inches, by persons under the age of twenty-five;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.
8. For the best copy in oil from any picture, being a composition of two or more figures, the principal figure not less than twenty-four inches, by persons under the age of twenty-one;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.
9. For the best original painting in oil, being an historical, poetical, or other composition, of not less than three figures; the size of the canvass to be a common half-length (or three feet four inches by four feet two inches), by persons under the age of twenty-five;—*the Gold Medal*. For the next in merit, *the Gold Isis Medal*.
10. For the best original painting in oil, being an historical composition, of not less than three figures; the size of the canvass to be a common half-length (or three feet four inches by four feet two inches); the subject, Ulysses restoring Chryseis to her father, see Homer's Iliad, book i., by persons under the age of twenty-five;—*the Gold Medal*. For the next in merit, *the Gold Isis Medal*.

Heads or Portraits.

11. For the best drawing of a head, copied from any picture, drawing, or print, by persons under the age of sixteen;—*the Silver Isis Medal*. For the next in merit, *the Silver Palette*.
12. For the best finished drawing of a head, not less than the size of life, from any bust, by persons under the age of eighteen;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.
13. For the best painting in oil, from an antique bust or cast, by persons under the age of nineteen;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.
14. For the best original painting in water-colours of a portrait, or group of portraits, not being of the class usu-

ally called miniature, by persons under the age of twenty-one;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

15. For the best portrait in miniature, in water-colours, being a copy, by persons under the age of twenty;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

16. For the best original portrait in miniature, in water-colours, by persons under the age of twenty-five;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

17. For the best copy, in oil, of a portrait, by persons under the age of nineteen;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

18. For the best original painting in oil, of a portrait, by persons under the age of twenty-five;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

Models.

19. For the best model in bas-relief, from any entire antique figure or cast in plaster, the size of the model not less than twenty-four inches, by persons under the age of eighteen;—*the Silver Isis Medal*. For the next in merit, *the Silver Palette*.

20. For the best model in bas-relief, from the living figure, by persons under the age of twenty-one, the model not less than twenty-four inches;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

21. For the best model of a bust from the antique, of a different size from the original, by persons under the age of twenty-one;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

22. For the best model of a bust from nature, of the size of life, by persons under the age of twenty-one;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

23. For the best model in the round,

from an entire antique figure, the model not less than twenty-four inches high, by persons under the age of twenty-one;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

24. For the best original model of a single figure, not less than twenty-four inches high, by persons under the age of twenty-five;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

25. For the best original model of a group, the figures not less than twenty-four inches, by persons under the age of twenty-five;—*the Gold Medal*. For the next in merit, *the Gold Isis Medal*.

Landscape.

26. For the best drawing of a landscape, copied from any picture, drawing, or print, by persons under the age of eighteen;—*the Silver Isis Medal*. For the next in merit, *the Silver Palette*.

27. For the best painting of a landscape in water-colours, being a copy, by persons under the age of eighteen;—*the Silver Isis Medal*. For the next in merit, *the Silver Palette*.

28. For the best painting of a landscape in oil, being a copy, by persons under the age of twenty;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

29. For the best original drawing of a landscape from nature, by persons under the age of twenty-one;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

30. For the best original painting in water-colours of a landscape from nature, by persons under the age of twenty-one;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

31. For the best original oil painting of a landscape from nature, by persons under the age of twenty-three;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

32. For the best original composition of a landscape painted in water-colours, by persons under the age of twenty-five;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

33. For the best original composition of a landscape painted in oil, by persons under the age of twenty-five;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

34. For the best original marine painting, in oil, of two or more vessels, by persons under the age of twenty-five;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

35. For the best original painting, in oil, taken from the interior of any public building, by persons under the age of twenty-five;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

36. For the best original drawing, in water-colours, taken from the interior of any public building, by persons under the age of twenty-three;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

Flowers or Fruit.

37. For the best painting in water-colours, being a copy, by persons under the age of sixteen;—*the Silver Isis Medal*. For the next in merit, *the Silver Palette*.

38. For the best original painting in water-colours, of one or more flowers from nature, particular attention being paid to botanical correctness, the parts of fructification being shewn separately, by persons under the age of twenty-five;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

39. For the best original composition in water-colours, from nature, by persons under the age of twenty-one;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

40. For the best original composition in oil, painted from nature, by

persons under the age of twenty-five;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

Animals.

41. For the best drawing of one or more animals, copied from any picture, print, or drawing, by persons under the age of sixteen;—*the Silver Isis Medal*. For the next in merit, *the Silver Palette*.

42. For the best original drawing from nature of one or more animals, by persons under the age of twenty-one;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

43. For the best original painting in oil, of a group of not less than three animals, painted from nature, by persons under the age of twenty-five;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

Still-Life.

44. For the best original composition, painted in oil or water-colours, of three or more such subjects as are usually called still-life, by persons under the age of twenty-one;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

Drawings of Machinery.

45. For the best perspective drawing of machinery, by persons under the age of twenty-one;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

Enamel Painting.

46. For the best enamel painting of a head, by persons under the age of twenty-three;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

47. For the best historical painting in enamel, by persons under the age of twenty-five;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

Carving in Wood.

48. For the best carving in wood

of fruit or flowers, not less than nine inches high, by persons under the age of twenty-five;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

49. For the best carving in wood of one or more animals, the size of the animal not less than eight inches, by persons under the age of twenty-five;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

50. For the best carving in wood of one or more human figures, not less than a foot in height, by persons under the age of twenty-five;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

51. For the best carving in wood of any enriched border or ornament, from the carver's own design;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

Carving in Ivory from the Candidate's own Models.

52. For the best carving in ivory of fruit or flowers, or any enriched border or ornament, not less than four inches in height, by persons under the age of twenty-one;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

53. For the best carving in ivory of one or more animals, the principal to be not less than four inches in height, by persons under the age of twenty-three;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

54. For the best carving in ivory of a head, the face to be not less than two inches in height, by persons under the age of twenty-three;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

55. For the best carving in ivory of one or more human figures, the principal part of the form being shewn, and not less than six inches in height, by persons under the age of twenty-five;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

Carving in Marble.

56. For the best carving in marble

of any enriched border or ornament, adapted to architectural or sculptural purposes, from the carver's own design, by persons under the age of twenty-three;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

Etching.

57. For the best free etching in historical composition, by persons under the age of twenty;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

58. For the best free etching of a landscape, by persons under the age of twenty;—*the Silver Isis Medal*. For the next in merit, *the Silver Palette*.

59. For the best free etching in historical composition, by persons under the age of twenty-five;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

60. For the best free etching of a landscape, by persons under the age of twenty-five;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

Finished Engravings on Steel or Copper.

61. For the best finished engraving in historical composition, by persons under the age of thirty;—*the Gold Medal*. For the next in merit, *the Gold Isis Medal*.

62. For the best finished engraving of a landscape, by persons under the age of twenty-five;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

63. For the best finished engraving of a portrait, by persons under the age of twenty-five;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

Engraving on Blocks.

64. For the best engraving on wood or metal blocks, of an historical subject, the size of the principal figure not less than six inches in height, and the

block to be at least twelve inches by nine;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

Two or more impressions, with the block, to be produced to the Society. The impressions, but not the block, to remain the property of the Society.

Engraving on Wood or Metal Blocks.

65. For the best engraving on wood or metal blocks of machinery;—*the large Silver Medal*. For the next in merit, *the Silver Isis Medal*.

It is required that particular attention be given to the truth of lights and shadows, with distinctness of the details.

Lithography.

66. For the best account of a process employed in lithography, superior to any hitherto known to the public;—*the Gold Isis Medal, or Thirty Pounds*.

The particulars of the process, accompanied by specimens of the art, and of the materials employed, with all other necessary information, to be produced to the Society.

67. For the best specimen of lithography, by persons under the age of twenty-five;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

Medal Die Engravings.

68. For the best die engraving, either of a head or single figure, after the engraver's own design and model, by persons under the age of twenty-one;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

69. For the best die engraving of a group, after the engraver's own design and model, by persons under the age of thirty;—*the Gold Medal*. For the next in merit, *the Gold Isis Medal*.

The dies, with two impressions or casts, and the model, in each claim for medal die sinking, are to be produced to the Society; and the impressions or casts to remain the property of the Society.

70. To the person who shall discover and communicate to the Society

a method of making and hardening medal dies, superior to any hitherto known, and which shall prevent the surface of the die from being cracked, scaled, warped, or otherwise injured;—*the Gold Medal, or Thirty Pounds*.

A full and detailed account of all the processes required to produce the effect, with certificates of their successful application, to be delivered to the Society.

Gem Engraving.

71. For the best engraving in intaglio or cameo, of a head or single figure, on carnelian or other hard stone, being a copy;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

72. For the best engraving in intaglio or cameo, of a head or figure, after the engraver's own design and model, on a carnelian or other hard stone;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

73. For the best engraving in intaglio or cameo, of a group, after the engraver's own design and model, on carnelian or other hard stone;—*the Gold Medal*. For the next in merit, *the Gold Isis Medal*.

Premiums for Medical or Surgical Students.

74. For the best coloured anatomical model of a dissected limb, or other part of the human body, in wax or other substance;—*the Gold Medal*. For the next in merit, *the Silver Medal*.

75. For the best original drawing (made from actual dissection) of the anatomy of the human body, or of any part thereof, sufficiently full and accurate for the purposes of surgery, such drawing to be not less than the natural size of the parts, by persons under the age of twenty-five;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

It is required that each model and drawing be accompanied by an outline, with the necessary references to render them intelligible.

ARCHITECTURE.

PREMIUMS FOR THE YEAR 1833 :

The claims for which must be sent in on or before the third Tuesday in January, 1833.

76. For the best drawing in perspective from a Corinthian or other ornamented capital, not less than eighteen inches high, by persons under twenty-one years of age;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

77. For the best drawing being an original composition of foliage or other ornament, adapted to the purpose of architectural decoration;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

78. For the best original model of foliage or other ornament adapted to the purpose of architectural decoration, being not less than two square feet of surface;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

79. For the best drawing in perspective of the Banqueting House, Whitehall, from actual measurement, projected according to rule, drawn on large elephant paper, by persons under the age of twenty-one;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

80. For the best design of the interior of a picture-gallery, to contain a collection of pictures similar in character to those in the National Gallery, but of at least double the number;—*the Gold Medallion*. For the next in merit, *the Silver Medal*.

It is required that particular attention be paid to the mode of lighting the gallery, and arranging the pictures so that each painting may, as much as possible, be distinctly seen. The whole collection to be contained in one room, or in separate rooms communicating with each other.

The drawings sent in claim of this premium must consist of one or more

perspective views, with such other drawings and descriptions as may be necessary to give a complete representation of the design, including the mode of warming and ventilating the gallery, and hanging the pictures. The drawings must be on a scale of one-sixth of an inch to a foot; the perspective view, and the representation of particular parts, on a larger scale, if necessary.

81. For the best design for a triumphal bridge, to consist of plan, elevations, and perspective view; the principal drawing to be of a size suitable to a sheet of double elephant paper;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

PREMIUMS FOR THE YEAR 1834 :

The claims for which must be sent in on or before the third Tuesday in January, 1834.

82. For the best drawing in perspective, made from a well-finished Corinthian or other ornamented capital; correct in all its details, and not less than eighteen inches high, by persons under twenty-one years of age;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

83. For the best drawing being an original composition of foliage or other ornament, adapted to the purpose of architectural decoration;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

84. For the best original model of foliage or other ornament adapted to the purpose of architectural decoration, being not less than two superficial feet;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

85. For the best design of a building suitable for a royal naval school;—*the Gold Medallion*. For the next in merit, *the Silver Medal*.

The drawings sent in for this premium must consist of one or more plans, elevations, sections, and perspective views, with separate drawings of such parts as may be necessary to give a complete representation of the design.

86. For the best drawing in perspective of the church of St. Martin's in the Fields, from actual measurement, projected according to rule, drawn on large elephant paper, by persons under the age of twenty-one;—*the Silver Medal*. For the next in merit, *the Silver Isis Medal*.

87. For the best design for an ornamental conservatory, including the means to be employed for warming and ventilating the same;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

Conditions for the last two premiums the same as for 85, and the required scale is one-sixth of an inch to a foot.

Printing for the Use of the Blind.

88. For the best communication on a method of printing for the use of the blind;—*the Gold Isis Medal*, or £20.

It is required that communications sent in claim of this premium should, in the first place, investigate whether on the whole it would be advantageous to employ the usual form of letters or any other; and, secondly, the best and cheapest methods of printing such letters or characters in relief, so as to render them most easily distinguishable by the touch.

It is an essential condition, that each communication be accompanied by a printed specimen, and that it be sent in on or before the first Tuesday in March, 1833 or 1834.

CLASS OF CHEMISTRY AND MINERALOGY.

Claims for premiums in this department are to be sent in (if possible) on or before the first Tuesday in February of the respective years for which they are offered.

Generation of Steam.

1. For the best method of generating steam for engines, in such a manner that its quantity or force shall be materially increased beyond the quantity or force of steam obtained by methods at present in practice, without increase of danger or expense;—*the Gold Medal*.

A full account of the process employed will be required, together with certificates of its having been successfully carried into effect.

Prevention of Smoke.

2. For an effectual method, superior to any in use, and verified by practice, of effectually preventing the emission of dense smoke from the chimneys of furnaces and fire-places;—*the Gold Medal, or One Hundred Pounds*.

Certificates to be produced to the Society, that the means proposed have been found to succeed in practice.

3. For the best account of the methods at present in use for effecting the consumption or condensation of smoke; with their respective advantages and disadvantages, and an investigation of the causes which have prevented them from being more generally introduced into common use in furnaces and manufactories, and especially brewhouses;—*the Gold Isis Medal*.

Preventing Noxious Vapours in Manufactories.

4. For an effectual method, superior to any in use, and verified by actual trial, of preventing the ill effects arising from noxious fumes disengaged in chemical and other manufacturing

processes;—*the Gold Isis Medal, or Thirty Pounds.*

Conditions the same as for No. 1.

Preventing the Ill Effects of Smelting Ores.

5. For the most effectual method of preventing the ill effects arising to vegetation and to animal life from the sulphureous, arsenical, or other noxious fumes disengaged in smelting the ores of copper, zinc, lead, tin, iron, &c. in the large way; and, if possible, of converting those pernicious fumes to useful purposes, in a manner superior to any hitherto known or in use;—*the Gold Medal, or Fifty Pounds.*

Conditions the same as for No. 1.

Fine Bar-Iron.

6. To the person who shall make the greatest quantity of bar-iron, not less than ten tons, with any fuel except charcoal, equal in quality to the best iron imported from Sweden or Russia, and as fit for being converted into steel;—*the Gold Medal.*

Samples of the iron, and of the steel made from it, to be produced to the Society; the quantity of the former to be not less than $\frac{1}{4}$ cwt., and of the latter not less than 7 lbs., with certificates that the whole quantity is of equal quality.

Refining Copper from the Ore.

7. For a method of separating, purifying, and refining copper from the ore, so as to render it fit for those purposes to which fine Swedish copper is now applied, and capable of being brought into the market at the same price;—*the Gold Medal.*

Certificates that not less than three tons have been so prepared and refined, and a quantity not less than 14 lbs. of the copper so refined, to be produced to the Society.

Refining Zinc from the Ore.

8. For refining zinc from the ore, by a process superior to any hitherto known or in use, and rendering it fit

for the purpose of making fine brass;—*the Gold Isis Medal, or Thirty Pounds.*

Conditions the same as in the preceding.

Preparing Brass.

9. For a method of making brass from materials the produce of Great Britain or Ireland, of superior quality to that commonly manufactured in this country;—*the Gold Isis Medal, or Thirty Pounds.*

A full account of the process, and of the ingredients employed, together with their proportions, and certificates that one ton has been so manufactured, and a sample of the brass, not less than 14 lbs., to be produced to the Society.

Pure Nickel.

10. For the best method of purifying nickel, and rendering it equal to that imported from Germany, at a price which will enable it to compete with this latter in the English market;—*the Gold Isis Medal, or Thirty Pounds.*

A full account of the process, and three pounds of the nickel to be produced to the Society.

Improving Melting-pots.

11. For manufacturing melting-pots, for founders in brass, iron, or other metals, superior to those now in use, and not too expensive;—*the Gold Isis Medal, or Thirty Pounds.*

A full account of the process, with specimens of the pots, to be produced to the Society.

Crown Glass.

12. To the person who shall make crown glass equally transparent, and as free from blue and green colour as the best German sheet, and not more expensive;—*the Gold Isis Medal.*

Certificates to be produced to the Society that not less than two cwt. have been made, together with one whole plate and two of the largest squares that can be cut, and a full account of the proportions of the ingredients, and of the process of manufacture.

Flint Glass.

13. To the person who shall invent

a process for making flint glass free from veins, as dense and transparent as the best now in use, and quite fit for the purposes of opticians;—*the Gold Medal*.

A full account of the process, with certificates that it has been found to answer on repeated trials; that not less than 20 lbs. have been made; and that object-glasses, at least three and a half inches in diameter, have been manufactured of the same, together with specimens of the glass in its rough and manufactured state, to be produced to the Society.

Indelible Ink.

14. For a method of making a black writing ink, superior to any at present known, and indestructible by chemical applications, and that shall flow freely from the pen;—*the Gold Isis Medal, or Thirty Pounds*.

Certificates that not less than two gallons of such ink have been actually prepared, with a full detail of the process of making it, and two quarts of the ink, to be produced to the Society.

Copper-plate Printers' Ink.

15. For the best composition for printers' ink, superior to any hitherto known, and fit for the finest kind of copper-plate printing;—*the Gold Isis Medal, or Thirty Pounds*.

Certificates that 112 lbs. of such ink have been made, with a full account of the process employed, and 6 lbs. of the ink, to be produced to the Society.

Preserving Provisions from becoming rancid or rusty.

16. For the best, cheapest, and most efficacious method, superior to any hitherto known, of preserving dry salted provisions from becoming rancid or rusty;—*the Gold Isis Medal, or Thirty Pounds*.

A full description of the method, with proper certificates that it has been found, on repeated trials, to answer the purpose intended, to be produced to the Society.

17. For a method of curing or preserving meat during long sea voyages,

superior to any now in use;—*the Gold Isis Medal, or Thirty Pounds*.

Conditions the same as for the preceding premium.

Preventing the Dry Rot in Timber.

18. For a method of preventing the decay in timber called dry rot, superior to any hitherto known;—*the Gold Medal, or Fifty Pounds*.

The particulars of the method of prevention, confirmed by repeated experiments on a large scale, to be produced to the Society.

Dry Rot.

19. For the best account of the derangement in the organic structure of timber, at the commencement and during the progress of the decay which has hitherto been called dry rot, to be illustrated by microscopic and other drawings;—*the Gold Isis Medal*.

Preventing Mildew in Paper or Canvass.

20. For a process to be used in the manufacture of paper or canvass, or some application to be made to manufactured paper or canvass, which shall effectually prevent it from becoming mildewed;—*the Gold Medal*.

A full account of the process employed, with certificates and other evidence of its efficacy, to be communicated to the Society.

Preventing the Destructive Effects from Moths.

21. For a cheap, easy, and effectual method, verified by repeated and satisfactory trials, of preventing the destructive effects occasioned by moths and other insects, in furs, woollens, specimens of natural history, and other articles, superior to any hitherto known or practised;—*the Gold Medal, or Fifty Pounds*.

The accounts, with proper certificates, to be produced to the Society.

Moths.

22. For the best account of the

various species of moths and other insects, which, in the British Islands, are destructive to silks, woollens, furs, and objects of natural history, illustrated by drawings of the animals in their various states ;—*the Gold Isis Medal.*

Improved Black Dye for Silk or Wool.

23. For a black dye for silk or wool, superior in colour and durability to any at present in use ;—*the Gold Isis Medal, or Thirty Pounds.*

A full account of the process, attested by satisfactory certificates, as well as samples of the silk or wool so dyed, to be produced to the Society.

Red Pigment.

24. For a red pigment, fit for use in oil and water, equal in tone and brilliancy to the best carmines and lakes now known or in use, perfectly durable, and more economical ;—*the Gold Isis Medal, or Thirty Pounds.*

Four ounces of such colour, and a full disclosure of its preparation, to be produced to the Society.

N.B. It is required that the colour should remain unaltered by common exposure to strong day-light, damps, and noxious vapours.

For an account of a red lake obtained from the *Galium tinctorium*, see Society's Transactions, Vol. 46, p. 138.

Blue Pigment.

25. For a blue pigment, equal in colour, brilliancy, and durability, to the best natural ultramarine, and which may be afforded at a cheaper rate ;—*the Gold Isis Medal, or Thirty Pounds.*

The conditions are the same as in the preceding premium for the red pigment.

26. For an accurate account of the methods employed by the chemists of Germany and France in the production of the new blue pigment used as a substitute for ultramarine ;—*the Gold Isis Medal.*

Conditions as for No. 24.

Lithographic Stone.

27. For the discovery in the United Kingdom, or in any British colony, of a bed of stone equal to the best German stone, for the purposes of lithography ;—*the Gold Isis Medal.*

A specimen of the stone, at least two feet square and two inches in thickness, with an account of the situation of the quarry, and certificates of its possessing considerable extent, to be produced to the Society.

Mineralogical and Geological County Maps.

28. To the person who shall complete and publish the best mineralogical and geological map of any county in the United Kingdom, on a scale of not less than one inch to a mile ;—*the Gold Isis Medal.*

The map, with certificates of its accuracy, to be produced to the Society. One impression of the map to remain the property of the Society.

Mineralogical and Geological Map of Ireland.

29. To the person who shall complete and publish an accurate mineralogical and geological map of Ireland, on a scale of not less than an inch to five miles ;—*the Gold Medal, or Fifty Pounds.*

The conditions are the same as in the preceding.

Mineralogical and Geological Map of Scotland.

30. The same premium is offered for a mineralogical and geological map of Scotland, on similar conditions.

N.B. For useful communications on any of the applications of Chemistry to the Arts and Manufactures, the Society will give Gold or Silver Medals, or Pecuniary Rewards, according to circumstances.

CLASS OF COLONIES AND TRADE.

Claims for the following premiums are to be sent in (if possible) on or before the second Tuesday in March.

It is absolutely necessary that all statements made by candidates residing in the colonies should be authenticated by the certificates of the governor or secretary of the colony, or by the justices of peace, or other competent local authorities.

Cashmere Wool.

1. To the person who shall import the greatest quantity of real Cashmere wool, or other wool of equal quality and value, not less than 1 cwt., and in a state fit for spinning;—*the Gold Medal.*

Samples of the wool, not less than five pounds weight, with bills of lading and other necessary documents, to be produced to the Society.

Importing the Cashmere-shawl Goat.

2. To the person who shall have imported into the United Kingdom, subsequent to the 1st of January, 1832, the greatest number, not fewer than three females and two males, of the real Cashmere-shawl goat, or of other goats whose wool is of equal quality and value;—*the Gold Medal.*

Certificates of the breed of the goats, and that they are in health at the time of making the communication, to be produced to the Society.

Nutmegs and Mace.

3. To the person who shall grow the finest sample of nutmegs or mace, of good and merchantable quality, not less than twenty pounds weight, in any part of his Majesty's dominions in the West Indies, or in any British plantation on the coast of Africa, or of the several islands adjacent thereto, or in the island of Singapore, and equal to those imported from the islands of the East Indies;—*the Gold Medal.*

Satisfactory certificates of the place of growth, with an account of the number of trees, their age, nearly the quantity of fruit on each tree, and the manner

of culture, together with samples, to be produced to the Society.

The same premium is offered for the year 1834.

Cinnamon.

4. A premium, similar to the preceding, and on the same conditions, is offered for the growth of cinnamon.

The same premium is also offered for the year 1834.

Black Pepper.

5. To the person who shall raise, in any of the British West Indian islands or colonies, and shall import the largest quantity, not less than 4 cwt., of good and marketable black pepper;—*the Gold Medal, or Fifty Pounds.*

Conditions the same as for No. 3.

Vanilla.

6. To the person who shall import from any of the British West Indian islands the greatest quantity of Vanilla beans, the produce of such island or colony, equal in quality to those produced in Poyais and on the coast of Mexico;—*the Gold Ceres Medal.*

Annatto.

7. To the person who shall import, from any part of the British settlements in the East Indies, the greatest quantity of annatto, equal to that imported from Spanish America, not less than 1 cwt.;—*the Gold Medal.*

A quantity of the annatto, not less than ten pounds weight, to be produced to the Society, with proper certificates that the annatto is the produce of such settlement.

Silk.

8. To the person who shall raise in any British colony, and shall import, the greatest quantity of silk proper for manufactures, not less than one hundred pounds weight, from silk-worms bred there;—*the Gold Medal.*

Specimens of the silk, not less than one pound, with an account of the method in which the silk-worms were managed, the kind of mulberry-trees whence they were furnished with food, and particulars respecting the culture of the mulberry-trees for that purpose, to be produced to the Society.

9. For the next greatest quantity, not less than fifty pounds, on similar conditions;—*the Silver Medal.*

Satisfactory certificates of the several particulars above mentioned to be delivered to the Society along with the samples required.

10. To the person who shall import silk grown in the East Indies, equal to the best Italian or China silk;—*the Gold Medal.*

One pound of the silk to be sent to the Society as a sample, with certificates that at least 100 lbs. of equal quality have been produced. The same premium is offered for the years 1834 and 1835.

Olive Oil.

11. To the person who shall manufacture and import the finest specimen of oil, not less than ten gallons, the produce of olives grown in any British colony in Africa or New South Wales;—*the Gold Medal.*

12. For the next greatest quantity, not less than six gallons;—*the Silver Medal.*

Specimens of the oil, not less than two quarts, together with satisfactory certificates, to be produced to the Society.

The same premium is also offered for the year 1835.

Wine from New South Wales.

13. To the person who shall import the finest wine, not less than one pipe, of good marketable quality, made from the produce of vineyards in New South Wales;—*the Gold Medal.*

Samples of the wine, bills of lading, and certificates that the wine was made in the colony, to be produced to the Society, together with an account of the vineyards, and of the process of the manufacture.

Dried Fruits.

14. To the person who shall prepare and import into Great Britain the greatest quantity, not less than 100 lbs. of dried fruits, similar to those now imported from the Mediterranean, of good quality, and the growth of the colony of New South Wales;—*the Gold Ceres Medal.*

Satisfactory certificates that the fruits were grown and prepared in the colony, with samples of the fruits, to be presented to the Society.

This premium is also extended to 1835.

The same premium, on similar conditions, is offered for the colonies of

15. The Cape of Good Hope.

16. The Mauritius.

Cultivation of the Tea Plant.

17. To the person who shall cultivate the greatest quantity of land, not less than five acres, with the tea plant, in the East Indies, or in any British colony;—*the Gold Medal.* For the next greatest quantity, not less than three acres;—*the Silver Medal.*

Certificates that such trees are growing, together with an account of the number of plants, their age, state, and mode of culture, to be produced to the Society.

China Tea.

18. To the person who shall communicate to the Society, from information obtained in China, the best and most authentic account of the culture of the plant or plants, the leaves of which furnish the different kinds of tea; together with the methods of gathering, drying, and otherwise preparing the leaves;—*the Gold Medal.*

This premium is extended to the years 1834 and 1835.

Cinchona.

19. To the person who shall com-

municate to the Society the best account of one or more of the species of cinchona, the bark of which is used in medicine, accompanied by specimens of the tree in leaf, flower, and seed; and not less than 10 lbs. of the bark;—*the Gold Medal*.

It would be desirable to have some of the seeds sent over in a state fit for vegetation, for which purpose it is recommended that they should be packed in fresh-burnt charcoal powder, and wrapped up in coarse brown paper: or sown on the day of embarkation between layers of earth in a box with a loose cover, by removing which they may be occasionally aired.

See also a paper by Dr. Wallich in the Trans. of the Horticultural Society, Vol. i. new series.

Seeds or Plants of Cinchona.

20. To the person who shall first import, in a state fit for vegetation, the seeds of any of the species of cinchona, the bark of which is used in medicine, and shall have actually raised not fewer than twenty plants from such seeds; or shall have imported twenty plants in a growing state, the said plants being in health at the time of the claim being sent in;—*the Gold Medal*.

Substitute for Hemp.

21. To the person who, in the years 1834 or 1835, shall raise at the Cape of Good Hope, in New South Wales, or in any of the British colonies, and import, a substitute for hemp, not less than two tons, equally cheap, strong, durable, and applicable to all the purposes for which hemp is now used;—*the Gold Medal*.

A quantity of the substitute, not less than 20 lbs., together with the proper certificates, to be produced to the Society.

22. To the person who shall import at least two tons of any vegetable fibre, which shall be equally cheap and applicable to all the purposes for which hemp is now used, and which shall be stronger and more durable;—*the Gold Medal*.

China Paper for Copper-plate Printing.

23. To the person who shall communicate to the Society the best account of the process employed in China for the manufacture of paper used in England for copper-plate printing, and known by the name of India paper, together with an account of the materials from which such paper is made;—*the Gold Medal*.

Specimens of the paper, not less than one ream, with samples of the materials in their raw or unmanufactured state, and satisfactory certificates, to be produced to the Society.

Diminution of Human Labour in the Cultivation of Sugar, &c.

24. To the person who shall produce to the Society a satisfactory account, founded on experience, of the most advantageous mode of diminishing the labour of persons employed in the cultivation of sugar, cotton, and coffee, in the West Indian colonies, by the substitution of agricultural machinery, or by the use of cattle;—*the Gold Medal*.

Persons wishing for information on this subject are referred to Mr. Booker's account of the management of a cotton plantation at Demerara, inserted in the 47th Volume of the Society's Transactions.

China Porcelain.

25. To the person who shall communicate to the Society, from information obtained in China, the best and most authentic account of the different earths (with specimens thereof) used in the manufacture of porcelain, together with plans of the furnaces, and the manner of burning, glazing, &c.;—*the Gold Medal*.

In addition to the particular premiums offered above, the Society will be glad to receive and reward any communications which may tend to enlarge the commerce of Great Britain, or promote the prosperity of its colonies.

CLASS OF MANUFACTURES.

For general conditions, see Agriculture.

The objects to which the public attention is particularly directed are arranged under the following heads :—

Raw Materials.

1. For the profitable conversion of any hitherto unused raw material found in Great Britain or Ireland, or which may be advantageously imported.

Machinery.

2. For improving the construction or mode of operation of any of the machinery or implements used in spinning, weaving, or dressing silk, wool, cotton, or flax, or in the manufacture of paper.

Application of Chemistry to Manufactures.

3. For improving the methods at present in use in bleaching, dying, calico-printing, tanning, leather-dressing, or any other manufacture depending on chemical principles.

Glass and Potteries.

4. For any improvements in the manufacture of glass, porcelain, or earthenware.

Metals.

5. For any improvement in the manufacture of hardware, or of orna-

mental articles made entirely or partly of metal.

New Manufactures.

6. For the invention and introduction of any new manufacture.

Patterns for Damask.

7. For the best pattern of silk Damask curtains ;—*the Gold Medal*. For the next in merit, *the Silver Medal*.

It is required that the drawings sent in for this premium should be working drawings, and they must be sent in either before they have been worked from, or within six months after.

Patterns for Paper-Hangings.

8. For the best design of a pattern of paper for hangings ; the drawing to be in colours, and care to be taken that the pattern be so arranged that when the strips are applied to an extended surface, no unpleasant arrangement of lines shall be produced, by partial or defective covering of the pattern ;—*the Gold Isis Medal*. For the next in merit, *the Silver Medal*.

CLASS OF MECHANICS.

Including Hydraulic, Pneumatic, Optical, Mathematical, Astronomical, and Surgical Apparatus.

For the conditions of the premiums offered in this class, see those prefixed to the Agricultural premiums.

The attention of candidates is particularly directed,—

1. To improvements in those important objects on which the interests of Great Britain essentially depend, namely, shipping, steam-engines, steam-boats and carriages, bridges, rail-roads, canals, tunnels, and the machinery employed in extensive manufactures.

2. To improvements in the tools used in the various handicraft trades.

3. To the diminution of labour required to perform mechanical opera-

tions, either by improving the apparatus employed, or the mode of using it.

4. To the improvement of optical, mathematical, and astronomical, and especially of nautical instruments, in respect to accuracy or facility of use.

5. To the diminution of danger attending certain machines and operations, namely, steam-boilers, gunpowder mills, stage coaches, and the operations of boring, blasting, and working mines and quarries.

REWARDS

BESTOWED BY THE SOCIETY DURING THE SESSION

1831—32.

IN THE CLASSES OF MECHANICS, CHEMISTRY, AND COLONIES AND TRADE.

1. J. Wilson Green, Esq., Newton Abbot, Devon, for his floors and frames for large ships, the Gold Isis Medal.

2. Mr. T. Medlen, 23, Gill Street, Limehouse, for his improved ship's capstan, the large Silver Medal.

3. Mr. W. Kennish, Chatham, for his method of concentrating a ship's broadside, the Gold Isis Medal.

4. Mr. Andrew Smith, 69, Princes-street, Leicester-square, for his improved cramp for flooring boards, the large Silver Medal.

5. Mr. J. Hall, Jun. for his improved sashes for Gothic windows, the Silver Isis Medal.

6. Mr. C. Taperell, 13, Penton-place, Pentonville, for an improved spindle for mortise locks, the Silver Isis Medal and 5*l*.

7. Mr. W. H. Perkins, Hoddesdon, Herts, for an improved cowl for ventilating stables, the Silver Isis Medal.

8. Mr. W. T. Penny, Castle-alley, Whitechapel, for a cutting plough for stationers, 5*l*.

9. Mr. T. Lane, Stockwell, for his instrument for describing spirals, the large Silver Medal and 15*l*.

10. Mr. M. H. Shuttleworth, Chapel-

place, Poultry, for his machine for drawing lines towards an inaccessible point, the large Silver Medal.

11. Mr. H. Slack, Berner's-street, Oxford-street, for his dissecting microscope, the Silver Isis Medal.

12. Mr. Edm. Turrell, 16, Clarendon-street, Somers Town, for his improved stage for a microscope, the Silver Isis Medal.

13. Mr. J. Holland, 6, Manor-place, Walworth, for his triplet for microscopes, the large Silver Medal.

14. Mr. Corn. Varley, 1, Charles-street, Somers Town, for his lathe for grinding and polishing large lenses and specula, the large Silver Medal.

15. Mr. Geo. Henekey, Holborn, for his gauge for standing casks, the Silver Isis Medal.

16. Mr. J. Hemming, 5, Brecknock-crescent, Camden Town, for his safe tube for explosive gases, the large Silver Medal.

17. Alex. Riley, Esq. for importing a flock of Cashmere-Angora goats, the Gold Isis Medal.

18. N. Wallich, M.D. F.R.S. Superintendent of the Botanic Garden of Calcutta, for specimens of Indian woods collected and described by him, the Gold Ceres Medal.

IN POLITE ARTS.

Amateurs.

FOR COPIES.

19. Mr. R. W. Roberts, Mercer-street, Long Acre, for a copy in pen and ink of a head, the Silver Palette.

20. Mr. L. H. Shephard, Guilford-street, Russell-square, for a copy in pencil of a landscape, the Silver Isis Medal.

21. Mr. Aug. Staunton, Craven-street, Strand, for a copy in pencil of animals, the Silver Palette.

22. Miss Harris, Lamb's Conduit-street, for a copy in Indian ink of a head, the Silver Isis Medal.

23. Miss Eliza Langmore, King-street, Finsbury-square, for a copy in chalk of a head, the Silver Isis Medal.

24. Miss H. Warlters, Bloomsbury-square, for a copy in chalk of a head, the Silver Palette.

25. Miss Fisher, Holly Terrace, Highgate, for a copy in water-colours of a print, the large Silver Medal.

26. Miss R. F. Tyreman, Euston-square, for a copy in water-colours of a portrait, the Silver Palette.

27. Miss M. Stace Lawson, Turnham Green, for a copy in miniature of a portrait, the large Silver Medal.

28. Miss Eliz. Jane Orger, Tooting, for a copy in pencil of a landscape, the Silver Isis Medal.

29. Miss Leppingwell, Croydon, for a copy in pencil of a landscape, the Silver Palette.

30. Miss E. Manning, Newman-street, for a model of a bust from the antique, the large Silver Medal.

31. Miss M. Reid, Regent-street, for a landscape in oil, the Silver Isis Medal.

FOR ORIGINALS.

32. Mr. H. Browne, Sidmouth-street, Gray's Inn-road, for a group of figures in pencil, the Silver Isis Medal.

33. Mr. R. S. E. Gallon, Royal Hospital, Greenwich, for an historical composition of figures in oil, the Gold Isis Medal.

34. Mr. Jos. Tanner, Little Russell-street, Covent Garden, for a portrait in oil, the Silver Isis Medal.

35. Mr. J. E. Nichols, Shrubbery-house, Putney, for a drawing of a landscape, the Silver Isis Medal.

36. Mr. Douglas Morrison, Datchet, near Windsor, for a drawing of a landscape, the Silver Palette.

37. Mr. J. Absolon, Jun. Bridge-road, Lambeth, for a portrait in chalk, the Silver Palette.

38. Miss Sharpe, Chiswick Mall, for a finished drawing from a figure, the Silver Isis Medal.

39. Miss L. J. Holder, Dartmouth-street, Westminster, for a portrait in water-colours, the large Silver Medal.

40. Miss F. Crockford, Sussex-place, Regent's Park, for a landscape in water-colours, the large Silver Medal.

41. Miss Wiggins, Gloucester-place, Portman-square, for a painting in oil of a landscape, the large Silver Medal.

42. Mrs. J. Docker, Terrace, Putney, for a painting in water-colours of flowers, the Silver Isis Medal.

43. Miss Eliz. Larkin, Alfred-place, Bedford-square, for a composition in water-colours of flowers, the Silver Palette.

44. Miss L. S. Welby, 105, Great Russell-street, Bloomsbury, for a composition in water-colours of vegetables, the large Silver Medal.

45. Miss M. A. Plant, Friday-street, Cheapside, for a composition of flowers in water-colours, the Silver Isis Medal.

46. Miss A. E. Cole, Alpha Road, Regent's Park, for a lithographic drawing, the large Silver Medal.

STUDENTS IN ARCHITECTURE.

47. Mr. James Wilson, Lower Seymour-street, Portman-square, for a drawing in perspective from a Corinthian capital, the large Silver Medal.

48. Mr. Geo. Mair, for an original design for an ornamental lodge, the large Silver Medal.

49. Mr. J. Douglas Hopkins, Cleveland-street, Fitzroy-square, for an original design for an ornamental lodge, the Gold Isis Medal.

ENGRAVERS.

50. Mr. T. Jennings, Upper Terrace, Islington, for a free etching of a landscape, the Silver Isis Medal.

51. Mr. H. L. Sadd, Quickset-row, New-road, Fitzroy-square, for a finished engraving of a portrait, the Silver Isis Medal.

52. Mr. F. F. Cuisset, Castle-street, Holborn, for an engraving in intaglio of a head, the large Silver Medal.

Artists.

COPIES.

53. Mr. James Butcher, Regent's-place, Horseferry-road, for a model of foliage, the large Silver Medal.

54. Mr. W. Buckler, Princes-street, Stamford-street, for a finished drawing of a figure from the antique, the Silver Isis Medal.

55. Mr. W. Gush, Lothbury, for an outline drawing of an anatomical figure, the Silver Palette.

56. Mr. E. B. Morris, Manor-place, Walworth, for a painting in oil of figures, the large Silver Medal.

57. Mr. Jos. P. Bishop, Charlotte-street, Clerkenwell, for a head in chalk, the Silver Palette.

58. Mr. S. Taylor, Westbourne Terrace, Bayswater, for a finished drawing in chalk from a bust, the Silver Isis Medal.

59. Mr. F. R. Roffe, Ossulton-street, Somers Town, for a portrait in water-colours, the Silver Isis Medal.

60. Mr. Alfred Shaw, Upper Charlotte-street, Fitzroy-square, for a portrait in oil, the Silver Isis Medal.

61. Mr. Alfred Fussell, Goulden-

terrace, Pentonville, for a portrait in oil, the Silver Isis Medal.

62. Mr. Arthur F. Sargent, John-street, Fitzroy-square, for a landscape in pencil, the Silver Palette.

63. Mr. H. J. Vully, Angel-lane, Hammersmith, for a copy in chalk of an historical subject, the Silver Isis Medal.

64. Mr. J. T. Stanesby, Derby, for a drawing in pen and ink of animals, the Silver Isis Medal.

65. Miss E. M. Derby, Osnaburg-street, Regent's-Park, for a drawing in chalk of a head, the Silver Isis Medal.

FOR ORIGINALS.

66. Mr. W. A. Wooler, Lower Seymour-street, Portman-square, for a drawing in perspective of machinery, the Silver Isis Medal.

67. Mr. George Page, Gerrard-street, Soho, for a model of a bust from the life, the Silver Isis Medal.

68. Mr. S. Manning, Newman-street, for a model of a bust from the life, the large Silver Medal.

69. Mr. C. A. Rivers, Derby-road, Kingsland, for an original model of a group, the large Silver Medal.

70. Mr. E. P. Novello, Frith-street, Soho, for a finished drawing from the living figure, the large Silver Medal.

71. Mr. Corn. Durham, Arundel-street, Strand, for a portrait, a miniature, the Gold Isis Medal.

72. Mr. Alfred H. Taylor, Rathbone-place, for a portrait in oil, the large Silver Medal.

73. Mr. Joseph Dodd, Burton-street, for a painting in oil of a landscape, the Silver Palette.

74. Mr. T. Clark, Pratt-place, Camden Town, for a painting in oil of a landscape, the Silver Isis Medal.

75. Mr. Joseph Wakeling, Royal-street, Hill-street, Walworth, for a painting in water-colours of flowers from nature, the Silver Isis Medal.

76. Mr. P. A. Verini, Bentinck-street, Manchester-square, for a composition of flowers in water-colours, the Silver Isis Medal.

77. Mr. Frederick T. Baynes, Burton-street, Burton-crescent, for a painting in water-colours of fruit from nature, the large Silver Medal.

78. Mr. J. W. Hillyard, Upper Clapton, for a painting in oil of animals, the Gold Isis Medal.

79. Mr. W. Wombill, Belvoir-ter-

race, Vauxhall-road, for a painting in oil of animals, the large Silver Medal.

80. Mr. W. E. Frost, High-street, Wandsworth, for a composition in oil of still-life, the Silver Isis Medal.

81. Mrs. J. Paulson, Mansfield, for a painting in water-colours of flowers, the Silver Isis Medal.

82. Miss C. Derby, Osnaburg-street, Regent's-park, for a portrait in water-colours, the large Silver Medal.

83. Miss Alabaster, 58, Piccadilly, for a painting in oil, an historical composition, the large Gold Medal.

The Thanks of the Society have been Voted to

Mr. William Anderson, of the Botanic Garden, Chelsea, for his hot-water apparatus for heating green-houses.

Mr. George Aikin, Harlington, Bedfordshire, for a communication on the advantages of small allotments of land to labourers in husbandry.

Geo. Carter, Esq. of Mettingham-lodge, near Eltham, for an improved dairy milk-pan.

By Order, ARTHUR AIKIN, Sec.
